

The 18th International TOVS Study Conference (ITSC-18)
Toulouse, France

PROGRAM
 Last updated: 27-Jan-2012

Tuesday 20 March 2012

15.00-19.00 Registration at *tbc*

Wednesday 21 March 2012

8.00 Registration
 (continues to
 15:00)

8.00 Buses leave
 from
 Toulouse to
 Conference
 Centre

9.00-9.30 **Welcome** Co-chairs Allen Huang,
 Stephen English

**An Overview
 Of Météo-
 France** Philippe Bougeault (15
 minutes)

**Local
 Arrangements** Vincent Guidard, Jean
 Maziejewski

**Review of
 agenda** Co-chairs

9.30-12.00 **Session 1a: New observing systems (oral presentations- 12 minutes)**

Chairs: Allen Larar and Dieter Klaes

1.1	Mitch Goldberg	NPP program status and Instrument Performance
1.2	Nigel Atkinson	AAPP status report and initial experiences with processing NPP data
1.3	Antonia Gambacorta	The NOAA Unique CrIS/ATMS Processing System (NUCAPS): first light retrieval results.

10:15-10:45 BREAK

10.45-11.15 **Session 1b: New observing systems (oral presentations- 12 minutes)**

Chairs: Allen Larar and Dieter Klaes

1.4	Hank Revercomb	New Results from the Cross-track Infrared Sounder (CrIS) on NPP, Part 1
1.5	Xu Liu	EDR Retrievals from CrIS and ATMS using CrIMSS operational algorithm

11.15-11.35 Session 1c: New observing systems (poster introductions - 1 minute: no visual aids)

Chairs: Allen Larar and Dieter Klaes

1.6	Elisabeth Weisz	Retrieval algorithm development for the Cross-track Infrared Sounder (CrIS)
1.7	Vladimir Zavyalov	CrIS on NPP: Instrument status and first glance on the instrument in-flight performance.
1.8	Sung-Yung Lee	Initial Assessment of CrIMSS Products
1.9	Larrabee Strow	Performance of the CrIS Sounder on NPP
1.10	Dave Tobin	New Results from the Cross-track Infrared Sounder (CrIS) on NPP, Part 2
1.11	Geoff Cureton	VIIRS Atmospheric Products in the Community Satellite Processing Package (CSPP)
1.12	Evan Fishbein	Early results from the ATMS on NPP
1.13	Thomas King	The NOAA Unique CrIS/ATMS Product Processing System (NUCAPS)
1.14	Yi Song	A BUFR and GRIB Tailoring System for NPP/JPSS Products
1.15	Scott Mindock	CSPP - NPP VIIRS RDR 2 SDR For the Direct Broadcast Community
1.16	Graeme Martin	The CrIS SDR Algorithm in the Community Satellite Processing Package
1.17	Ben Ruston	Use of NPP data in the US Navy's Global Assimilation System
1.18	Amy Doherty	Early results from assimilation of ATMS data at the UK Met Office

11.35-12.20 Session 1d: New observing systems (oral presentations- 12 minutes)

Chairs: Allen Larar and Dieter Klaes

1.19	Denise Hagan	CrIS Early On-orbit Spectral and Radiometric Performance
1.20	Niels Bormann	Initial results from using ATMS and CrIS data at ECMWF
1.21	Andrew Collard	Toward assimilation of CrIS and ATMS in the NCEP Global Model

12.20-12.45 Session 2a: Future Observing Systems (Agency poster introductions - 6 minutes. 2 slides)

Chairs: Jerome Lafeuille and Tom Ahtor (not confirmed)

2.1	Dieter Klaes	EUMETSAT Plans
2.2	Thierry Phulpin	CNES Programmes For Meteorology, Climate And Atmospheric Composition
2.3	Kozo Okamoto	JMA and JAXA plans

13.00-14.15 LUNCH

14.15-14.45 Session 2a: Future Observing Systems (agency poster introductions - 6 minutes. 2 slides)

Chairs: Jerome Lafeuille and Tom Ahtor (not confirmed)

2.4	Mitch Goldberg	NOAA
2.5	Alexander Uspensky (tbc)	Russia
2.6	Jun Li	China

14.45-15.15 Session 2b: Future Observing Systems (oral presentations - 12 minutes)

Chairs: Jerome Lafeuille and Tom Ahtor (not confirmed)

2.7	Jean Pla	Radio Frequency Interference in Earth Exploration Satellite Service (passive) bands
2.8	Peter Schluessel	EUMETSAT Polar System - Second Generation

15:15-16:00 Session 1c, 2a Poster Viewing including tea break

16.00-16.45 Session 2b: Future Observing Systems (oral presentations - 12 minutes)

Chairs: Jerome Lafeuille and Tom Ahtor (not confirmed)

2.9	Tony McNally	Future degradation of the polar orbiting satellite network - how will it affect Numerical Weather Prediction ?
2.10	Cyril Crevoisier	IASI-New Generation onboard EPS-SG: Expected impact on accuracy and vertical resolution for atmospheric variables
2.11	David Crain	GeoMetWatch-STORM: Towards Building an Optimal Scale Coupled Next-Generation Geostationary Ultra-spectral Measurements for Improving Regional Weather and Environmental Forecast

16.45-16.50 Session 2c: Future Observing Systems (poster introductions - 1 minute: no visual aids)

Chairs: Jerome Lafeuille and Tom Ahtor (not confirmed)

2.12	Bjorn Lambrigsten	The coming geostationary microwave sounder
2.13	Stephanie Guedj	Future benefits of high-density radiance data from MTG in the AROME fine-scale weather forecast model

16.50-17.00 Session 3b: Current Observing Systems (poster introductions - 1 minute: no visual aids)

Chairs: Ed Pavelin and Kozo Okamoto

3.1	Eric Pequignot	IASI on MetOp-A & B: Performance Status
3.2	Ruiyue Chen	Assessing the Stability of Jason/TOPEX Microwave Radiometers Using AMSU and AMSR-E
3.3	Anna Booton	An assessment of the characteristics of SSMIS from F-16 to F-18
3.4	Niels Bormann	Evaluation of FY-3 instruments in the ECMWF system
3.5	Noelle Scott	Results and discussion of the LMD coupled LEO/LEO intercalibration and stand-alone validation approaches for IASI and HIRS on board MetopA

17.00-17.15 Session 4a: NWP centre reports (poster introductions - 3 minutes: 1 slide)

Chairs: Ed Pavelin and Kozo Okamoto

4.1	Akira Okagaki	Recent development of satellite data assimilation at JMA
4.2	Tony McNally	Developments in Satellite Data Assimilation at ECMWF
4.3	Gilles Verner	Status of operational satellite data assimilation at Environment Canada
4.4	Roger Randriamampianina	The use of satellite radiances at the Hungarian Meteorological Service
4.5	Jean-Francois Mahfouf	Recent developments on satellite data assimilation at Meteo-France
4.6	Harald Schyberg	Developments on assimilation of IASI in the Norwegian HARMONIE regional NWP model
4.7	Bill Campbell	AMSU-A Assimilation in COAMPS/NAVDAS
4.8	Andrew Collard	NCEP

4.9	Luis Gustavo de Goncalves	Recent progresses of the use of satellite observation in the CPTEC/INPE data assimilation systems
4.10	Ed Pavelin	An Update on the Operational Use of Satellite Sounding Data at the Met Office

17.15-17.30 Session 4b: Assimilation studies (oral presentations - 12 minutes)

Chairs: Tony McNally and John Eyre

4.11	John LeMarshall	Ultraspectral data in NWP
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18.00-20.00 Ice breaker and poster viewing session 2c, 3, 4a

20.00 Buses depart conference centre for central Toulouse

Thursday 22 March 2012

08:00 Buses depart central Toulouse for conference centre

09.00-11.30 Session 4b: Assimilation studies (oral presentations - 12 minutes)

Chairs: Tony McNally and John Eyre

4.12	Nadia Fourrie	Assimilation of advanced sounder cloudy radiances in global NWP model and retrieval of cloud parameters from IASI over Antarctica
4.13	Cristina Lupu	Wind tracing from SEVIRI clear and overcast radiance assimilation
4.14	Marco Matricardi	The direct assimilation in the ECMWF 4D-Var system of principal component scores derived from shortwave IASI spectra
4.15	Pauline Martinet	New developments for the use of microphysical variables for the assimilation of IASI radiances in convective scale models
4.16	Ed Pavelin	The assimilation of hyperspectral infrared radiances over land

10:15-10:45 BREAK

09.00-11.15 Session 4b: Assimilation studies (oral presentations - 12 minutes)

Chairs: Tony McNally and John Eyre

4.17	Anais Vincensini	IASI radiances assimilation over land.
4.18	Francois Faijan	Towards the use of cloud microphysical and optical properties to simulate IASI spectra in an operational context

11.15-11.30 Session 4c: Assimilation studies (poster introductions - 1 minute: no visual aids)

Chairs: Tony McNally and John Eyre

4.19	Lucio Torrasi	Use of Radiances in the CNMCA (Italian National Meteorological Center) Operational Ensemble Data Assimilation System
4.20	Sylvain Heilliette	Infrared radiance simulation in an OSSE context
4.21	Robert Tubbs	Use of SEVIRI data in Met Office convective-scale models
4.22	Peter Weston	Accounting for correlated observation error in the assimilation of high resolution sounders
4.23	Bruna Silveira	Recent developments on inclusion of radiances in the CPTEC/INPE data assimilation systems
4.24	Jun Li	Improving high impact weather forecasts with advanced IR

		soundings
4.25	Fatima Karbou	The assimilation of microwave observations from AMSU-A and AMSU-B over sea ice through a better description of the surface emissivity
4.26	Dirceu Herdies	An Observation Impact Tool for CPTCLETKF: Preliminary Results in South America Region
4.27	Fabrizio Baordo	Humidity observing system experiments within the ECMWF assimilation system
4.28	Niels Bormann	Experimentation with inter-channel error correlations with AIRS and IASI at ECMWF
4.29	Simone Costa	The use 1D-VAR as pre-processor of the radiances: CPTC Pre-operational results
4.30	Kozo Okamoto	Assimilation of cloudy infrared radiances of MTSAT-1R imager

11.30-12.30 Session 4d: Assimilation studies (oral presentations - 12 minutes)

Chairs: Niels Bormann and Andrew Collard

4.31	Stephanie Guedj	Assimilation of surface-sensitive SEVIRI radiances over land in meso-scale models
4.32	Zhiquan Liu	Impact of assimilating AMSU-A radiances on 2008 Atlantic tropical cyclones initialized with a limited-area ensemble Kalman filter
4.33	Sid Boukabara	Data Assimilation and Retrievals of Microwave Measurements Impacted by Atmospheric Hydrometeors (Cloud, Rain, Ice)
4.34	Min-Jeong Kim	Implementation of AMSU-A Cloudy Radiance Data Assimilation in NCEP NWP Models

12.30-17.15 Action Items from ITSC-17

Moderators: Allen Huang and Stephen English

Technical sub-group reports (5 minutes each)

- [ATOVS direct broadcast packages](#) (Liam Gumley)
- [RTTOV](#) (James Hocking)
- [RARS](#) (Jerome Lafeuille)
- [CRTM](#) (Paul van Delst)
- [Remote Sensing and Modeling of Surface Properties](#) (Fatima Karbou)

13.00-14.15 LUNCH

Working group action items presented by ITSC-17 WG co-chairs (15 minutes)

- [RT](#) (Paul Van Delst and Marco Matricardi)
- [Climate](#) (Joerg Schulz and Thierry Phulpin)
- [NWP](#) (Niels Bormann and Andrew Collard)

15.00-16.15 Session 4c Poster Viewing including tea break

Working group action items presented by ITSC-17 WG co-chairs (15 minutes)

- [International and Future Systems](#) (Jerome Lafeuille and John Eyre)
- [Advanced IR Sounders](#) (Bill Smith and Peter Schluessel)
- [Satellite Sounder Science and Products](#) (Tony Reale and Lydie Lavanant, Liam Gumley, Nathalie Selbach, Nigel Atkinson)

17.15-17.30 Working group and Technical Sub-Group formation

18.00 Buses depart for central Toulouse

19.00-20.00 Cocktail town hall

Friday 23 March 2012

08:00 Buses depart central Toulouse for conference centre

09.00-09.30 Session 4e: Assimilation studies (oral presentations - 12 minutes)

Chairs: Niels Bormann and Andrew Collard

4.35	Kevin Garrett	A Variational Approach to NWP Preprocessing and Quality Control
4.36	Wei Han	Study and Comparison of Simulation of Satellite Microwave Observations in Cloudy and Rainy Area using RTTOV and CRTM

09.30-09.50 Session 4f: Assimilation studies (poster introductions - 1 minute: no visual aids)

Chairs: Niels Bormann and Andrew Collard

4.37	Enza Di Tomaso	Observing system experiments on ATOVS orbit constellation
4.38	Enza Di Tomaso	Correction of errors in the simulation of AMSU-A observations
4.39	Enza Di Tomaso	The assimilation of surface-sensitive microwave sounder radiances at ECMWF
4.40	Reima Eresmaa	The use of short-wave channels to improve the cloud detection of high spectral resolution radiance observations at ECMWF
4.41	Sylvain Heilliettte	Impact of radiance assimilation near the model lid
4.42	Tuuli Perttula	Impact of IASI in HARMONIE forecasting system during convective storm events in Finland during summer 2010
4.43	Amy Doherty	Assimilation of Lower Tropospheric microwave channels over land at the Met Office
4.44	Pauline Martinet	Selection of IASI channels in cloudy conditions for their use in operational contexts
4.45	Nathalie Saint-Ramond	Forecast sensitivity to satellite observations at METEO-FRANCE
4.46	Vincent Guidard	Update on IASI Assimilation in Météo-France global and mesoscale models
4.47	Vincent Guidard	Contribution of the Concordiasi campaign: surface parameters

		for satellite radiances assimilation over Antarctica
4.48	Will McCarty	Towards the Handling of Cloud-Affected Infrared Radiances in the GSI
4.49	Yoonjae Kim	Evaluation of the impact of IASI over land using the adjoint-based sensitivity method

09:50-10.20 Session 5a: Climate studies (oral presentations - 12 minutes)

Chairs: Claudia Stubenrauch and Peter Schluessel

5.1	Joerg Schulz	Inter-calibration of Meteosat IR and WV channels using HIRS data
5.2	Larrabee Strow	Climate-Level Trending with Hyperspectral Sensors

10:20-10:50 BREAK

10.50-10.55 Session 5b: Climate studies (poster introductions - 1 minute: no visual aids)

Chairs: Claudia Stubenrauch and Peter Schluessel

5.3	Nathalie Courcoux	CM SAF reprocessed ATOVS dataset
5.4	Nathalie Selbach	Overview on the Generation and Provision of Climate Data Records at the EUMETSAT Satellite Application Facility on Climate Monitoring
5.5	Paul Poli (presented by Stephen English)	Assessment of old satellite instruments for use by reanalysis

10.55-11.40 Session 5c: Climate studies (oral presentations - 12 minutes)

Chairs: Claudia Stubenrauch and Peter Schluessel

5.6	Thierry Phulpin	Use of IASI data for climate monitoring :Ozone, CO2, and other ECVs
5.7	Martin Stengel	Long-term satellite-based cloud property datasets derived within the EUMETSAT Satellite Application Facility on Climate Monitoring
5.8	Ruiyue Chen	Inter-satellite Calibration of NOAA HIRS Level-1b Data for the Development of Climate Data Records

11.40-12.10 Session 6a: Processing systems (oral presentations - 12 minutes)

Chairs: John LeMarshall (not confirmed) and Nigel Atkinson

6.1	Liam Gumley	Community Satellite Processing Package (CSPP) - A Critical Infrastructure in Support of NOAA's NPP/JPSS Real Time Regional Users
6.2	Christelle Ponsard	EARS-ATMS, EARS-CrIS and EARS-VIIRS: Three new regional services

12.10-12.15 Session 6b: Processing systems (poster introductions - 1 minute: no visual aids)

Chairs: John LeMarshall (not confirmed) and Nigel Atkinson

6.3	Kathleen Strabala	10+ Years of IMAPP Software for Direct Broadcast: IMAPP Lessons Learned
6.4	Christelle Ponsard	Status of the EUMETSAT Advanced Retransmission Service (EARS)
6.5	Tony Reale	NOAA Products Validation System
6.6	Thomas Achtor	McIDAS-V: A Data Analysis and Visualization Tool for Global Satellite Data
6.7	Ray Garcia	Open-Source Tools for the Community Satellite Processing

		Package
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12.15-12.45 Session 7a: Advanced Infrared Sounders (Oral presentations - 12 minutes)

Chairs: Carmine Serio and Paolo Antonelli

7.1	John Eyre	Information content of radiance climatologies for advanced infrared sounders
7.2	Laura Stewart	Derivation of AMVs from single-level retrieved MTG-IRS moisture fields

13.00-14.15 LUNCH

14.15-15.00 Session 7a: Advanced Infrared Sounders (Oral presentations - 12 minutes)

Chairs: Carmine Serio and Paolo Antonelli

7.3	Brian Kahn	New AIRS cloud top microphysical properties and their comparison with updated NCAR CAM5 simulations
7.4	Paolo Antonelli	Monitoring of pre-convective situation from hyperspectral observations by AIRS and IASI
7.5	Bill Smith	Observations of Atmospheric Dynamics From Consecutive CrIS and AIRS Measurements

15.00-15.10 Session 7b: Advanced Infrared Sounders (poster introductions - 1 minute: no visual aids)

Chairs: Carmine Serio and Paolo Antonelli

7.6	Bob Knuteson	Hyperspectral Infrared Sounding within 3-Dimensional Cloud Structures
7.7	Eric Fetzer	AIRS Version 6 Products for Weather, Climate and Atmospheric Composition Research
7.8	Jordi Chinaud	IASI Technical Expertise Centre
7.9	Denis Jouglet	Long-term radiometric inter-comparison of IASI-A / AIRS and preparation for IASI-A / IASI-B.
7.10	Thomas August	Status of the operational IASI L2 products at EUMETSAT
7.11	Tim Hultberg	Hyperspectral retrieval and subspaces
7.12	Allen Larar	Geophysical Information Content Variation with Advanced Sounder Characteristics

15:10-15:30 Session 8b: Radiative transfer (poster introductions - 1 minute: no visual aids)

Chairs: Marco Matricardi and Stuart Newman

8.1	Nicole Jacquinet-Husson	A tool for IASI hyperspectral remote sensing: The GEISA Database in its latest edition
8.2	Noelle Scott	The ARSA (Analyzed RadioSoundings Archive) database to assess the accuracy of forward and inverse radiative models
8.3	Laure Chaumat	4A/OP: A fast & accurate operational forward radiative transfer model
8.4	Peter Wang	A Thematic Climate Data Record (TCDR) of Atmospheric Temperature Derived from Satellite Microwave Sounding Instruments Using 1D-Var MIRS
8.5	Rasmus Tonboe	Simulations of the snow covered sea ice surface temperature and microwave effective temperature
8.6	Rasmus Tonboe	The EUMETSAT OSI SAF near 50 GHz sea ice emissivity model
8.7	Niels Bormann	Evaluation and comparisons of FASTEM versions 2 to 5 in the ECMWF system

8.8	Jerome Vidot	Developing a VIS and NIR surface reflectance model for RTTOV
8.9	Paul van Delst	CRTM Development Status
8.10	Eva Borbas	The recent update of the UW/CIMSS high spectral resolution global IR land surface emissivity database: the satellite viewing angle dependence

15.30-17.00 Session 4f, 5a, 6b, 7b Poster Viewing including tea break

17.00-18.00 Session 8a: Radiative transfer (oral presentations - 12 minutes)		
Chairs: Marco Matricardi and Stuart Newman		
8.11	Raymond Armante	Assessing the accuracy of the line-by-line 4A/OP model through comparisons with IASI and AIRS observations
8.12	Gerrit Holl	Simulating cloudy thermal infrared radiances with an optimised frequency grid in the radiative transfer model ARTS
8.13	James Hocking	Update on RTTOV developments
8.14	Fatima Karbou	Modelling the surface emissivity to assimilate SSMI/S observations over land

18.30 Dinner at Météo-France: after dinner guest speaker Tom Kleespies

21.00 Buses depart for central Toulouse

Saturday 24 March 2012

8.00 Buses depart central Toulouse for conference centre

9.00-12.00 Working Groups (with break 10:15-10:45)

13.00-14.15 LUNCH

13.30-18.00 Working groups and/or Activities (details will be confirmed at meeting)

Sunday 25 March 2012

9.00-17.30 Working groups and/or Activities (details will be confirmed at meeting)

20.00 Conference dinner

Monday 26 March 2012

08:00 Buses depart central Toulouse for conference centre

09.00-10.00 Session 9a: Atmospheric composition, clouds and chemistry (oral presentations - 12 minutes)		
Chairs: Jean-Francois Mahfouf and Dirceu Herdies		
9.1	Anton Kaifel	Towards a NNORSY Synergistic GOME-2/IASI Ozone Profile ECV
9.2	Thibaud Thonat	Study of biomass burning emissions with Aqua/AIRS and MetOp-A/IASI

9.3	Stuart Newman	Case study of airborne and satellite observations of volcanic ash from the Eyjafjallajokull eruption
9.4	Claudia Stubenrauch	Cloud properties and bulk microphysical properties of semi-transparent cirrus

10.00-10.15 Session 9b: Atmospheric composition, clouds and chemistry (poster introductions - 1 minute: no visual aids)

Chairs: Jean-Francois Mahfouf and Dirceu Herdies

9.5	Awdhesh Sharma	SO2 and Ash Alerts Using IASI Measurements and Updates on the NOAA/NESDIS IASI Products Processing System
9.6	Giuseppe Grieco	Retrieval of minor gases on the Mediterranean area by means of the FTS*PSI technique
9.7	Filomena Romano	Precipitation estimation from polar and geostationary orbit
9.8	Victoria Galligani	Snowfall characterization over land using active and passive microwave satellite observations
9.9	Marc Schröder	GEWEX water vapour and temperature profile assessment
9.10	Virginie Capelle	Towards the daily observation of dust aerosols infrared optical depth and altitude from IASI and AIRS with one spot resolution: comparison with MODIS and CALIPSO
9.11	Zhiquan Liu	Relative merit of MODIS AOD and surface PM2.5 for aerosol analysis and forecast
9.12	Hyo-Jin Han	Asian dust AOT and height retrieval from AIRS measurements using an ANN approach

10.15-10.45 BREAK

10:45-12:00 Session 10a: Retrieval science (oral presentations - 12 minutes)

Chairs: Sid Boukabara and Mitch Goldberg

10.1	Eric Pequignot	New approach in atmospheric sounding
10.2	Carmine Serio	new IASI stand alone cloud detection scheme based on correlation interferometry
10.3	Guido Masiello	IASI retrieval of geophysical parameters over land surfaces with phi-IASI package
10.4	Maxime Paul	A physical scheme to retrieve simultaneously surface temperature and emissivities using high spectral infrared observations from IASI
10.5	Virginie Capelle	Infrared continental surface emissivity spectra and skin temperature retrieved from IASI observations

12.00-12.25 Session 10b: Retrieval science (poster introductions - 1 minute: no visual aids)

Chairs: Sid Boukabara and Mitch Goldberg

10.6	Michele Feltz	Validation of IR Sounder Temperature Profiles Using GPS Radio Occultation
10.7	Xavier Calbet	Assessment of adequate quality and co-location of sondes with space borne hyperspectral infrared instruments to validate retrievals of temperature and water vapour
10.8	Stephen Tjemkes	Intercomparison of retrieval codes for hyperspectral infrared sounding observations
10.9	Aralova Didlora	The relationship between land surface temperature (LST) and perpendicular vegetation index (PVI) values for desert vegetation

		of Kyzylkum zones, Uzbekistan
10.10	Jean-Luc Moncet	Land Surface Temperatures from AMSR-E with an Emissivity Database
10.11	Christopher Down	Use of multi-spectral imagery in the Bureau of Meteorology
10.12	Stuart Newman	Airborne and satellite remote sensing of the mid-infrared water vapour continuum
10.13	Jon Taylor	Comparing different cloud representations in variational retrievals using the HT-FRTC code on IASI data
10.14	Jon Taylor	The rapid retrieval of visible and near infrared land surface properties using principal component radiative transfer
10.15	Lydie Lavanant	A cloud detection scheme for the O&SI SAF NPP/VIIRS SST product
10.16	Alexander Uspensky	Analysis of land air temperature mapping capabilities with IR and microwave satellite data
10.17	Sergey Uspensky	Derivation of land air temperatures using measurements from geostationary meteorological satellites
10.18	Eun-Han Kwon	Examining effect of TPW-classified a priori error and quality control on atmospheric temperature and water vapor sounding retrieval
10.19	Bomin Sun	An Evaluation of NOAA IASI Temperature and Water Vapor Sounding Retrievals Using NPROVS Collocation Data
10.20	Eva Borbas	The MODIS MOD07 Collection 6 products: The impact of the H2O/CO2/O3 channel spectral shifts

12.30-13.00 Working groups and technical sub-groups finalise reports

13.00-14.15 LUNCH

14.15-15.45 Session 9b and 10b poster viewing including tea break

15.45-16.30 Session 11a: Retrieval science (oral presentations - 12 minutes)

Chairs: Ben Ruston and Eva Borbas

10.21	Daniel Zhou	Error Consistency Analysis Scheme for Retrieval Error Budget Estimation
10.22	Yin Yang	Diagnosis and Tuning of observation error in 1DVAR(MIRS) in all sky conditions
10.21	Harald Schyberg	Validation of the EUMETSAT OSI SAF 50 GHz sea ice emissivity product

16.30-18.30 Working groups finalise reports

18.30 Dinner at Météo-France

20.45 Presentation of prizes for best oral and poster presentations

21.00 Buses depart to central Toulouse

Tuesday 27 March 2012

08:00 Buses depart central Toulouse for conference centre

09.00-12.15 Session 12: Working Group Reports (15 minutes)

Co-chairs: Allen Huang and Stephen English

- [RT](#) (Marco Matricardi, Paul van Delst)
- [Climate](#) (Thierry Phulpin, Joerg Schulz)
- [NWP](#) (Andrew Collard, Niels Bormann)

10.15-10.45 BREAK

- [Advanced IR Sounders](#) (Peter Schluessel, Bill Smith)
- [International and Future Systems](#) (John Eyre, Jerome Lafeuille)
- [Satellite Sounder Science and Products](#) (Nigel Atkinson, Liam Gumley, Nathalie Selbach)

12.00-12.30 Session 13: Technical Sub-Group Reports (5 minutes)

Co-chairs: Allen Huang and Stephen English

- [ATOVS direct broadcast packages](#) (Liam Gumley)
- [RTTOV](#) (James Hocking)
- [RARS](#) (Jerome Lafeuille)
- [CRTM](#) (Paul van Delst)
- [Remote Sensing and Modeling of Surface Properties](#) (Fatima Karbou)

12.30-12.45 Closing Session

Co-chairs: Allen Huang and Stephen English

[Future meetings, other events relevant to ITWG](#)

[Nominations for election of new co-chairs](#)

[Closing remarks](#)

13.00-14.15 LUNCH

14.30 Buses depart to central Toulouse